# Information Technology Architectures
## for Washington State Government
## August 6, 1997

## DRAFT

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| **Architecture** | **Common Network Architecture** |

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| **Principles** | **All levels of state and local government will have access to a common network that:**<br>• Improves productivity by reducing the complexity and time required to share information between all of the jurisdictions, citizens, and private businesses.<br>• Minimizes redundant programming projects and systems by providing an infrastructure that enables the sharing of state and local government applications.<br>• Improves regional productivity by establishing local connectivity and information sharing.. |

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| **Architectural Direction:** | **Current standards:**<br>• TCP/IP<br>• Electronic Mail must support SMTP and MIME<br>**Current guidelines:**<br>• State agencies utilize the DIS Internet gateway for their high-speed Internet access.<br>• Local government connections to the Intergovernmental Network are designed and implemented by DIS.<br>• State agency and local government network changes that affect their connectivity to the shared state TCP/IP network and the Intergovernmental network are coordinated with DIS.<br>**State and local government currently agree to establish these guidelines and/or standards:**<br>• There is a requirement for a Common Network and Network Security Architecture.<br>• The Common Network and Network Security Architecture must support the Statewide Business Drivers.<br>• Each jurisdiction is responsible for adhering to the standards that are adopted.<br>• Shared network "firewall" architecture will be utilized as a first line of defense. Each jurisdiction should provide their own security environment(s) in addition to any provided at the shared network level.<br>• Each jurisdiction shall manage their internal network(s) and security.<br>• Networks with unsecured connections to "open" networks (e.g. the Internet) will not be connected to the state network or the state and local government "Intergovernmental" network.<br>• The shared network will provide points-of-presence in appropriate locations through-out the state enabling regional connectivity.<br>• The shared network will utilize high speed, high capacity circuits and will be managed by DIS. |

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| | **Standards that may need to be addressed:**<br>• Encryption<br>• Electronic/digital signatures<br>• Business transactions<br>• Connectivity agreements<br>• Firewall protection<br>• Proxy servers<br>• Network address translation servers<br>• Network to network security standards<br>• Physical and logical connectivity standards for local jurisdictions |